

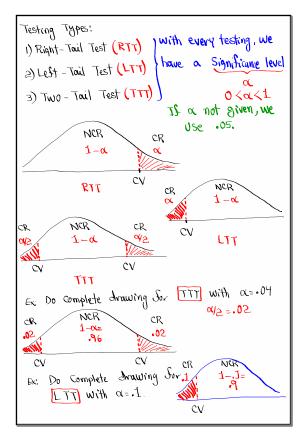
Feb 19-8:47 AM

SG 24-2 Testing Claims: A claim could be about a) Population Proportion P b) Population Mean M c) Population standard deviation J ex: I claim 75% of LA residents are Lakers Fan. I claim the mean age of all students at College is below 30 Yrs. I claim the standard deviation of all exam Score is at least 10.

why are we testing claims? we test claims simply to determine the validity of the claim. IS claim is valid => we support it. If claim is invalid => we reject it. Any possibilities to make a mistake? Yes when we have a valid claim but we reject it. when we have an invalid claim but we support it

May 9-7:24 AM

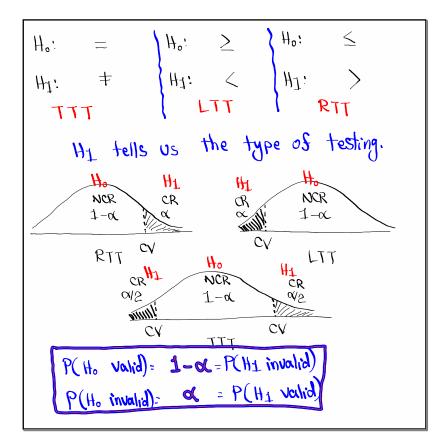
Testing Methods: 1) Traditional Method we use these two a) P-value Method methods in the class. 3) Confidence Interval Method Regardless of the method, the final Conclusion must be the Same. Support Reject the claim OR Fail-to-Reject the claim when claim is when claim is valid involid Action (Join Valid Invalid Not error Error Reject Fail-to-Reject Not error Error



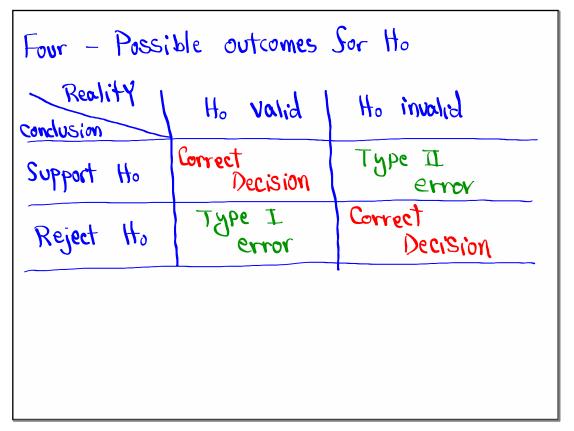
May 9-7:37 AM

H° & Ht: More on must contain = Sign. => = , \geq , \leq Ho Hy cannot contain = Sign. $\Rightarrow \pm, <, >$ Key words: is , equal, Same, at least, at most, Hº: is not, not equal, different, more than, Hr: less than, above, below, exceed,... claim could be Ho and H1 but not at the Same time. Always identify the claim and type of testing. Two-Tail Test + $H^{T_{i}}$ Left-Tail Test 4 Ht: Right-Toùl Test HJ: >

May 9-7:58 AM

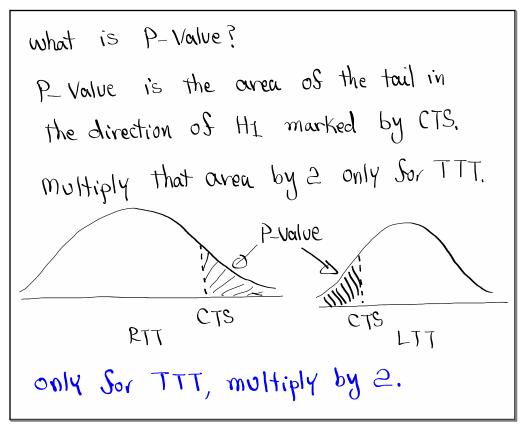


May 9-8:05 AM

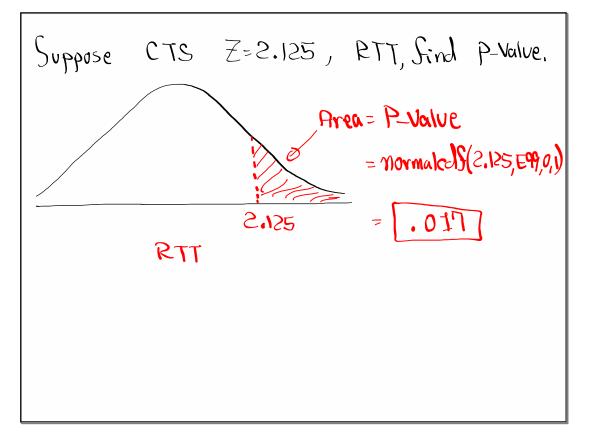


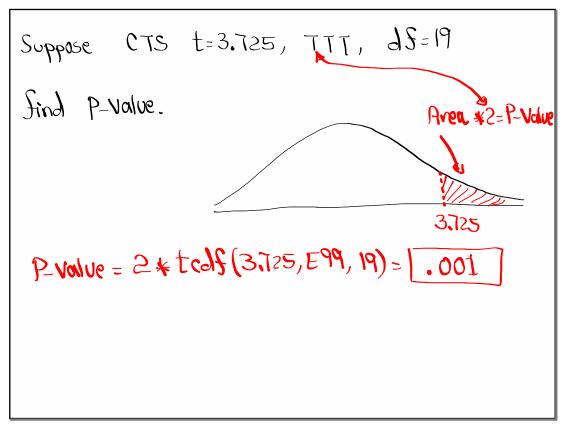
May 9-8:13 AM

The College claims that 10% of all students
Smoke:
Ho:
$$P=-1$$
 claim
HI: $P \neq -1$ TTT
The College claims that the mean of all
exams is at least 78.
Ho: $M \ge 78$ claim
HI: $M \le 78$ LTT
The College claims that standard deviation of
ages of all students is above 10 Vrs.
Ho: $T \le 10$ No.
HI: $T \ge 10$ claim, PTT



May 9-8:24 AM





May 9-8:30 AM